

IN THE CLAIMS

Please amend claims 1, 6, 8, 11-16, 18-20, 24-28, 31-33, 36, 39-42, 45, 47, 50-52 as indicated below.

1. (Currently Amended) A method for processing broadcasts, comprising:
 - receiving a broadcast of a program, the broadcast containing a plurality of perspectives of the program;
 - presenting a first perspective of the plurality of perspectives to a viewer, said first perspective comprising a first perspective of a portion of the program;
 - storing at least one of the plurality of perspectives;
 - providing input from a viewer which indicates a desire to replay the portion of the program from a second perspective of the plurality of perspectives;
 - identifying in the first perspective a ~~particular~~ first point in time in the program which corresponds to the beginning of said portion, responsive to the input; and
 - automatically determining a second point in time in the second perspective, wherein the second point in time comprises an approximation of the first point in time in the program; and
 - presenting a the portion of the program from the second perspective of the ~~plurality of perspectives of the program~~ to the viewer, ~~wherein the second perspective is automatically presented beginning at the particular second~~ point in time.
2. (Original) The method as recited in claim 1, wherein presenting the first perspective and storing are performed simultaneously.
3. (Original) The method as recited in claim 1, wherein storing the at least one of the plurality of perspectives is performed automatically.

4. (Original) The method as recited in claim 1, wherein presenting at least one of the plurality of perspectives includes presenting at least one of the stored perspectives.
5. (Original) The method as recited in claim 4, wherein presenting at least one of the plurality of perspectives and storing are performed simultaneously.
6. (Currently Amended) The method as recited in claim 1, further comprising periodically storing meta-data corresponding to each of one or more of the received plurality of perspectives of the program, said meta-data comprising at least time and offset information for each of the corresponding one or more plurality of perspectives. The method as recited in claim 5, wherein storing at least one of the plurality of perspectives includes storing all of the perspectives.
7. (Original) The method as recited in claim 1, wherein receiving the broadcast includes receiving a plurality of related video streams, each stream including one of the perspectives.
8. (Currently Amended) The method as recited in claim 6, wherein identifying the first point in time in the first perspective comprises identifying a first offset in a stored file corresponding to the first perspective. The method as recited in claim 1, wherein receiving the broadcast includes receiving a plurality of related audio streams, each stream including one of the perspectives.
9. (Original) The method as recited in claim 1, wherein presenting the first perspective includes presenting the first perspective in one window of a display and presenting at least one of the plurality of perspectives includes presenting a second perspective from the plurality of stored perspectives in a different window of the display.
10. (Original) The method as recited in claim 1, wherein storing at least one of the plurality of perspectives includes storing the perspectives in at least one circular buffer.

11. (Currently Amended) The method as recited in claim 8, wherein determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset. The method as recited in claim 1, wherein presenting at least one of the plurality of perspectives includes preparing a video signal for display on a television screen.

12. (Currently Amended) The method as recited in claim 8, wherein determining the second point in time in the second perspective comprises:

searching stored meta-data to identify two consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset;

utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time;

searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time;

utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset; and

locating an offset in the second perspective which is near the approximated offset.

The method as recited in claim 1, wherein presenting at least one of the plurality of perspectives includes the step of preparing an audio signal for a speaker.

13. (Currently Amended) The method as recited in claim 11, wherein the plurality of perspectives of the program comprise MPEG data streams, and wherein the offset in the second perspective which is near the first offset corresponds to an MPEG I-frame. The method as recited in claim 4, wherein presenting at least one of the plurality of perspectives includes sending at least one of the stored perspectives from a storage device through a demultiplexer to a display.

14. (Currently Amended) The method as recited in claim 12, wherein the plurality of perspectives of the program comprise MPEG data streams, and wherein the offset in the second perspective which is near the approximated offset corresponds to an MPEG I-frame. ~~The method as recited in claim 4, wherein presenting at least one of the plurality of perspectives includes searching one of the stored perspectives.~~

15. (Currently Amended) A method for playing a multi-perspective program comprising:
receiving a broadcast of the program, the broadcast including a plurality of perspectives of the program;
recording at least one of the plurality of perspectives in a storage device;
sending a first perspective of the plurality of perspectives to a display ~~to play at least a portion of the program,~~ said first perspective comprising a first perspective of a portion of the program;
providing input from a viewer which indicates a desire to replay the portion of the program from a second perspective of the plurality of perspectives;
identifying in the first perspective a first point in time which corresponds to a beginning of the portion of the program, responsive to the input; ~~and~~
automatically determining a second point in time in the second perspective,
wherein the second point in time comprises an approximation of the first point in time in the program; and
replaying the portion of the program from a different the second perspective beginning at the second point in time by sending a the second perspective of the plurality of perspectives from the storage device to the display;
~~wherein a point in time of the different perspective which corresponds to the beginning of the portion of the program is automatically determined responsive to the identification of the first point in time in the first perspective.~~

16. (Currently Amended) The method as recited in claim 15, further comprising periodically storing meta-data corresponding to each of one or more of the received

plurality of perspectives of the program, said meta-data comprising at least time and offset information for each of the corresponding one or more plurality of perspectives, and wherein identifying the first point in time in the first perspective comprises identifying a first offset in a stored file corresponding to the first perspective wherein the first perspective is a recorded perspective.

17. (Original) The method as recited in claim 15, further comprising sending the second perspective to one window in the display to play the portion of the program from the second perspective concurrently with sending the first perspective to a different window in the display.

18. (Currently Amended) The method as recited in claim 16, wherein determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset. 15, wherein receiving the broadcast includes receiving at least one video stream, each video stream being associated with one of the perspectives.

19. (Original) The method as recited in claim 15, wherein determining the second point in time in the second perspective comprises:

searching stored meta-data to identify two consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset;
utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time;
searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time;
utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset; and

locating an offset in the second perspective which is near the approximated offset.
~~wherein receiving the broadcast includes receiving at least one audio~~
~~stream, each audio stream being associated with one of the perspectives.~~

20. (Currently Amended) A system for recording a broadcast including a plurality of perspectives of a program, comprising:
a receiver operable to receive the broadcast, the broadcast including at least one program;
a storage device coupled to the receiver;
a processor operable to:
 present at least a first perspective of the plurality of perspectives to a viewer, said
 first perspective comprising a first perspective of a portion of the program;
 record at least one of the plurality of perspectives in the storage device;
 receive input from a viewer which indicates a desire to replay the portion of the
 program from a second perspective of the plurality of perspectives;
 identify in the first perspective a first point in time in the program which
 corresponds to the beginning of said portion, in response to the input; and
 automatically determine a second point in time in the second perspective, wherein
 the second point in time comprises an approximation of the first point in
 time in the program; and
 present a the portion of the program from the second perspective of the plurality
 of perspectives of the program to the viewer, ~~wherein the second~~
 ~~perspective is automatically presented beginning at the~~ second point in
 time.

21. (Original) The system as recited in claim 20, further configured to record the perspectives automatically.

22. (Original) The system as recited in claim 20, further configured to present the recorded perspectives to the viewer without interrupting the recording of the broadcast.

23. (Original) The system as recited in claim 20, wherein the receiver is a set top box.

24. (Currently Amended) The system as recited in claim 22, wherein the storage device is contained within the set top box or is removably coupled to the set top box.

25. (Currently Amended) The system as recited in claim 22 20, further comprising periodically storing meta-data corresponding to each of one or more of the received plurality of perspectives of the program, said meta-data comprising at least time and offset information for each of the corresponding one or more plurality of perspectives, and wherein identifying the first point in time in the first perspective comprises identifying a first offset in a stored file corresponding to the first perspective. ~~wherein the storage device is removably coupled to the set top box.~~

26. (Currently Amended) The system as recited in claim 20, wherein the storage device is selected from the group consisting of: comprises a magnetic disk, an optical disk, and a flash memory.

27. (Currently Amended) The system as recited in claim 20 25, wherein determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset. ~~wherein the storage device comprises an optical disk.~~

28. (Currently Amended) The system as recited in claim 20 25, wherein determining the second point in time in the second perspective comprises:

searching stored meta-data to identify two consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset;
utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time;

searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time; and utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset;
locating an offset in the second perspective which is near the approximated offset.
~~wherein the storage device comprises flash memory.~~

29. (Original) The system as recited in claim 20, wherein the receiver comprises at least one tuner.

30. (Original) The system as recited in claim 29, wherein the receiver comprises a demultiplexer and a processor.

31. (Currently Amended) A system for presenting broadcasts, comprising:
a receiver configured to receive a broadcast including a plurality of perspectives of a program;
a storage device for storing at least one of the plurality of perspectives; and
a processor configured to present a first perspective to a viewer while presenting at least a second, stored perspective to the viewer;
wherein in presenting the second, stored perspective, the processor is configured to:
receive input from a viewer which indicates a desire to replay a portion of the program from a second perspective of the plurality of perspectives;
identify in the first perspective a first point in time in the program which corresponds to the beginning of said portion, responsive to the input; and
automatically determine a second point in time in the second perspective, wherein the second point in time comprises an approximation of the first point in time in the program; and
~~automatically~~ present the portion of the program from the second, stored perspective beginning at the second point in time.

32. (Original) The system as recited in claim 31, wherein the first perspective is a stored perspective.

33. (Original) The system as recited in claim 31, wherein the storage device is configured to store the at least one perspective automatically.

34. (Original) The system as recited in claim 31, further configured to store the at least one perspective simultaneously with presenting the first perspective.

35. (Original) The system as recited in claim 31, further configured to store the at least one perspective simultaneously with presenting the second perspective.

36. (Currently Amended) The system as recited in claim 31, wherein the processor is further configured to periodically store meta-data corresponding to each of one or more of the received plurality of perspectives of the program, said meta-data comprising at least time and offset information for each of the corresponding one or more plurality of perspectives, and wherein identifying the first point in time in the first perspective comprises identifying a first offset in a stored file corresponding to the first perspective. ~~further comprising a display coupled to the processor for presenting at least one perspective.~~

37. (Original) The system as recited in claim 36, wherein the processor is configured to present the first perspective in a first window on the display and the second perspective in a second window on the display.

38. (Original) The system as recited in claim 37, wherein one of the first and second windows is nested inside the other of the first and second windows.

39. (Currently Amended) The system as recited in claim 31, wherein the receiver is configured to receive a plurality of audio and/or video streams associated with the plurality of perspectives.

40. (Currently Amended) The system as recited in claim 39, wherein each of the audio and/or video streams includes one of the perspectives.

41. (Currently Amended) The system as recited in claim ~~34~~ 36, wherein determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset. ~~wherein the receiver is configured to receive a plurality of audio streams associated with the plurality of perspectives.~~

42. (Currently Amended) The system as recited in claim ~~41~~ 36, wherein determining the second point in time in the second perspective comprises:

searching stored meta-data to identify two consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset;
utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time;
searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time; and
utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset;
locating an offset in the second perspective which is near the approximated offset.
~~wherein each audio stream includes one of the perspectives.~~

43. (Original) The system as recited in claim 31, wherein the storage device includes at least one circular buffer for storing at least one of the plurality of perspectives.

44. (Original) The system as recited in claim 31, wherein the processor is configured to search at least one of the stored perspectives.

45. (Currently Amended) A computer program product for processing broadcasts, comprising a computer usable medium having machine readable code embodied therein for:

receiving a broadcast of a program, the broadcast containing a plurality of perspectives of the program;
presenting a first perspective of the plurality of perspectives to a viewer, said first perspective comprising a first perspective of a portion of the program;
storing at least one of the plurality of perspectives;
receiving input from a viewer which indicates a desire to replay the portion of the program from a second perspective of the plurality of perspectives;
identifying in the first perspective a ~~particular~~ first point in time in the program which corresponds to the beginning of said portion, responsive to the input; and
automatically determining a second point in time in the second perspective, wherein the second point in time comprises an approximation of the first point in time in the program; and
presenting a the portion of the program from the second perspective of the ~~plurality of perspectives of the program~~ to the viewer, ~~wherein the second perspective is automatically presented beginning at the particular second~~ point in time.

46. (Original) The computer program product as recited in claim 45, wherein the presenting the first perspective and storing are performed simultaneously.

47. (Currently Amended) The computer program product as recited in claim 45, further comprising periodically storing meta-data corresponding to each of one or more of the received plurality of perspectives of the program, said meta-data comprising at least time and offset information for each of the corresponding one or more plurality of perspectives, and wherein identifying the first point in time in the first perspective comprises identifying a first offset in a stored file corresponding to the first perspective ~~wherein storing at least one of the plurality of perspectives is performed automatically.~~

48. (Original) The computer program product as recited in claim 45, wherein presenting at least one of the plurality of perspectives includes presenting at least one of the stored perspectives.

49. (Original) The computer program product as recited in claim 48, wherein presenting at least one of the plurality of perspectives and storing at least one of the plurality of perspectives are performed simultaneously.

50. (Currently Amended) The computer program product as recited in claim 49 47, wherein determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset. ~~wherein storing at least one of the plurality of perspectives includes storing all of the perspectives.~~

51. (Currently Amended) The computer program product as recited in claim 45, wherein receiving the broadcast includes receiving a plurality of related audio and/or video streams, each stream including one of the perspectives.

52. (Currently Amended) The computer program product as recited in claim 45 47, wherein determining the second point in time in the second perspective comprises:

searching stored meta-data to identify two consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset;

utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time;

searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time; and

utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset;

locating an offset in the second perspective which is near the approximated offset.
~~wherein receiving the broadcast includes receiving a plurality of related~~
~~audio streams, each stream including one of the perspectives.~~

53. (Original) The computer program product as recited in claim 45, wherein presenting the first perspective includes presenting the first perspective in one window of a display and presenting at least one of the plurality of perspectives includes presenting a second perspective from the plurality of stored perspectives in a different window of the display.

54. (Original) The computer program product as recited in claim 45, wherein storing at least one of the plurality of perspectives includes storing the perspectives in at least one circular buffer.